	Application No.	Applicant(s)	_
Notice of Allowability	10/500,150 Examiner	KUMAGAI ET AL. Art Unit	
	Thao P. Le	2818	
The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI	(OR REMAINS) CLOSED in or other appropriate commu GHTS. This application is s	this application. If not included inication will be mailed in due course. THIS	e
1. This communication is responsive to <u>5/1/06</u> .			
2. ☑ The allowed claim(s) is/are <u>13-22</u> .			
3.	been received. been received in Application cuments have been received of this communication to file ENT of this application. tted. Note the attached EXA is reason(s) why the oath or it be submitted. on's Patent Drawing Review of Amendment / Comment or it be submitted. Amendment / Comment or it be header according to 37 CF is it of BIOLOGICAL MATE	n No If in this national stage application from the a reply complying with the requirements MINER'S AMENDMENT or NOTICE OF declaration is deficient. If (PTO-948) attached In the Office action of the drawings in the front (not the back) of R 1.121(d). ERIAL must be submitted. Note the	
Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/06 Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview Su Paper No.// B), 7. ☐ Examiner's	formal Patent Application (PTO-152) Immary (PTO-413), Mail Date Amendment/Comment Statement of Reasons for Allowance	

DETAILED ACTION

Response to Amendment

This Office Action is in response to Amendment filed on 05/01/06.

Claims 1-12 have been cancelled.

Claims 13-22 are newly added.

Remark of Applicants has been considered.

Claims 13-22 are pending in this application.

Reason for allowance

Claims 13-22 are allowed. The following is an examiner's statement of reason for allowance: None of the references of record teaches or suggests the claimed limitations having a thermal CVD method of forming an insulating film consisting essentially of silicon nitride, silicon oxide, silicon oxynitride comprising the steps of supplying first, second, and third gases into a processing chamber wherein the first gas consists essentially of a silane family gas selected from the group consisting of hexachlorodisilane, hexaethylaminodisilane, bistertialbutylaminosilane, and dichlorosilane, the second gas consists essentially of a gas selected from the group consisting of an oxidizing gas, nitriding gas, and oxynitriding gas, and the third gas consists essentially of ethylene, the process temperature is in the range of 450 to 600 oC and among other limitations cited in independent claims 13 and 22.

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Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance".

Conclusion

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thao P. Le whose telephone number is 571-272-1785. The examiner can normally be reached on M-F (8-6).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor David C. Nelms can be reached on 571-272-1787. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Thao P. Le

06/20/06

Primary Examiner